

## 7121: Superior Strength & Versatility

Best known for its critical bonding applications, Arjay's Vinyl Ester has become a multi-purpose leader



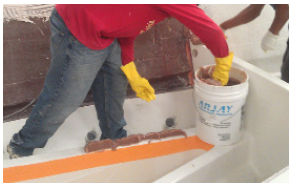
Arjay Technology's Vinyl Ester is specially formulated with Bisphenol-A based epoxy vinyl ester resin for superior physical properties when compared to polyester resins. This has made it the ideal choice for many marine applications where the bonds are structurally critical.

### Performance Benefits

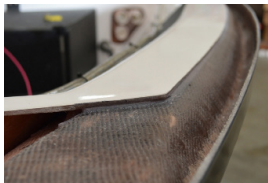
- Easy to mix, apply, and use
- Superior strength great for critical bonds
- Our most versatile compound
- Fire Retardant Solutions Available



Bonding stringer assembly to prepped hull



Preparing stringers for liner/deck



7121 used to bond deck to hull

### ProTips & Other Resources at ArjayTech.com

- ProTip: Versatile Vinyl Ester (PDF) Discover 7121's many uses!
- 7121 TDS (PDF) Available for download any time on our website

### TECHNICAL DATA SHEET

# 7121 Vinyl Ester

## BONDING COMPOUND

### RECOMMENDED FOR

Stringers to Hull	Strake Filling
Liner to Hull	Bulkhead Bonding & Filletting
Hull to Deck Joint	Tabbing in Fittings
High Vibration Areas	Mold Flange Repair
Radius Compound	Mold Structure Attachment

### WORKING & TIMES (In Minutes)

Gel Time	Interval	Total	Peak Exo
35	30	65	285° F

### TYPICAL PHYSICAL PROPERTIES @75°F (24°C)

Color	Tan
Odor	Styrene
Texture	Smooth
Weight	9.8 lbs/gallon
Stability	4-5 months

### VISCOSITY

RPM	μ Min	μ Max
2	960,000	1,250,000
20	100,000	195,000

### TYPICAL CURED PROPERTIES @75°F (24°C)

Test	Average	Deviation
Tensile Elongation, %	8.9	0.14
Tensile Strength, PSI	9,150	99.4
Flexural Strength, PSI	16,000	606
Flexural Modulus, PSI	877,000	38,100
Compressive Strength, PSI	2,200	213
Lap Shear, PSI	1,420	34.3
Heat Deflection, °F	165	5.0
Linear Shrinkage, %	< 1	

### PACKAGING & AVAILABILITY



Pails  
5 Gal./19 L

ITEM# 7121

# Storage & Handling

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## STORAGE

To ensure maximum stability and maintain optimum properties, bonding compounds should be stored in the original closed container at temperatures below 24 C/75 F and away from heat ignition sources and sunlight. The product must be warmed up to 18 C/ 65 F prior to use so that timely curing and optimum processing can be maintained.

All storage space and containers should conform to local fire and building codes. The bonding compounds should be stored separately and away from oxidizing materials, peroxides and metal salts. Keep containers closed when not in use. Employ best practices of using first-in, first-out stock rotation.

## SHELF LIFE

Shelf life is 3 months from date of shipment. Minimum shelf life performance implies the life of the product in the original, unopened container. For additional information on storage and handling, please contact your sales representative or authorized distributor.

## STANDARD PACKAGING

Standard product packages include 55-gallon metal drums and 5 gallon plastic pails.

## SAFETY

Read and understand the material safety data sheet before working with the product. Obtain a copy of the material safety data sheet on this product from the Arjay website, or contact your sales representative or authorized distributors.

The bonding compounds contain volatile components that are highly flammable and should be handled with care and used in well ventilated area. The product must be stored in a cool place away from source of heat, open flames or sparks. Keep containers closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact flush with water for 15 minutes and seek immediate medical care.

## DISPENSING EQUIPMENT

The pumpable versions of the bonding compounds are supplied in drums, to be dispensed with internal metered mix equipment. Most commonly used dispensing equipment is supplied by Magnum Venus Products ([www.mvpind.com](http://www.mvpind.com)). GS Manufacturing ([www.gsmfg.com](http://www.gsmfg.com)) and Glass-Craft ([www.glascraft.com](http://www.glascraft.com)) also offer similar dispensing systems.

While all Information contained herein are to the best of our knowledge accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. We suggest that the recommendations be evaluated and validated by the purchaser prior to use. In all cases it is the responsibility of the user and NOT of Arjay Technologies or SCIGRIP to determine the suitability of the bonding product and dispensing systems for its own particular purpose and use environment.

**California Proposition 65 Warning:** This product contains the following chemicals known to the State of California to cause cancer: Styrene Oxide, Aniline. Styrene, in the presence of air and high temperature or the prolonged exposure to a styrene/air mixture to sunlight can react to form styrene oxide.